

ABSTRACT

Process and device for positioning an optical component between two optical fibers

The invention pertains to a process and to a device for positioning an optical component between two optical fibers furnished at their end with lenses (3, 4).

The process consists in:

- drilling a support (6) in such a way as to fix therein a capillary tube (7) whose inside diameter is designed to slip an optical fiber thereinto,
- fixing the capillary tube (7) in the drilling (8) of the support (6),
- making a blind cut (10) of the support (6) and of the capillary tube (7), in such a way as to separate the capillary tube (7) into two parts (7a, 7b), a first plane face (11) of the cut (10) being perpendicular to a longitudinal axis (5) of the capillary tube (7),
- positioning the component (12) on the first plane face (11),
- positioning an optical fiber (1, 2) in each of the parts (7a, 7b).

The device comprises a support through which is fixed a capillary tube (7), the support (6) comprising a cut (10) so as to separate the capillary tube (7) into two parts (7a, 7b). The cut (10) comprises a first plane face (11) perpendicular to a longitudinal axis (5) of the capillary tube (7). The component is positioned on the first plane face (11).

Figure 1.